

# Throttle Check Valve

## TV-CHK SERIES

### INTRODUCTION

TV-CHK Series are throttle valves combined with a check valve function (regulate flow + one-way flow control).

Suitable for any type of hydraulic system using liquids that are not highly viscous (non-corrosive mineral based oils and liquids).

### APPLICATIONS

Construction, mobile hydraulics, test equipment, machine tools, agricultural and general hydraulics.

### MATERIALS

Valve body: Carbon steel with zinc plating

Valve Core: 40Cr alloy steel

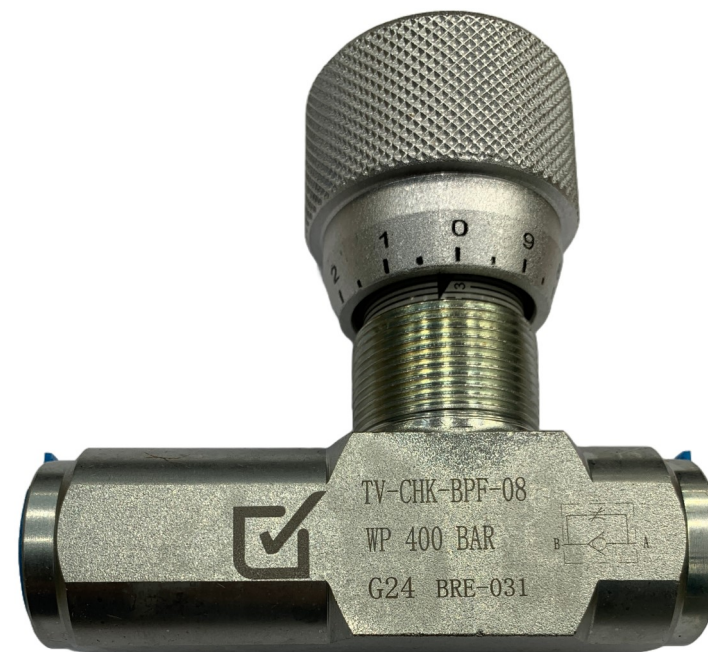
Internal spring: Steel spring wire (SWP-B)

### TECHNICAL DETAILS

One-way flow (non-return).

Ideal Operating temperatures: -40°C to 70°C (90°C max)

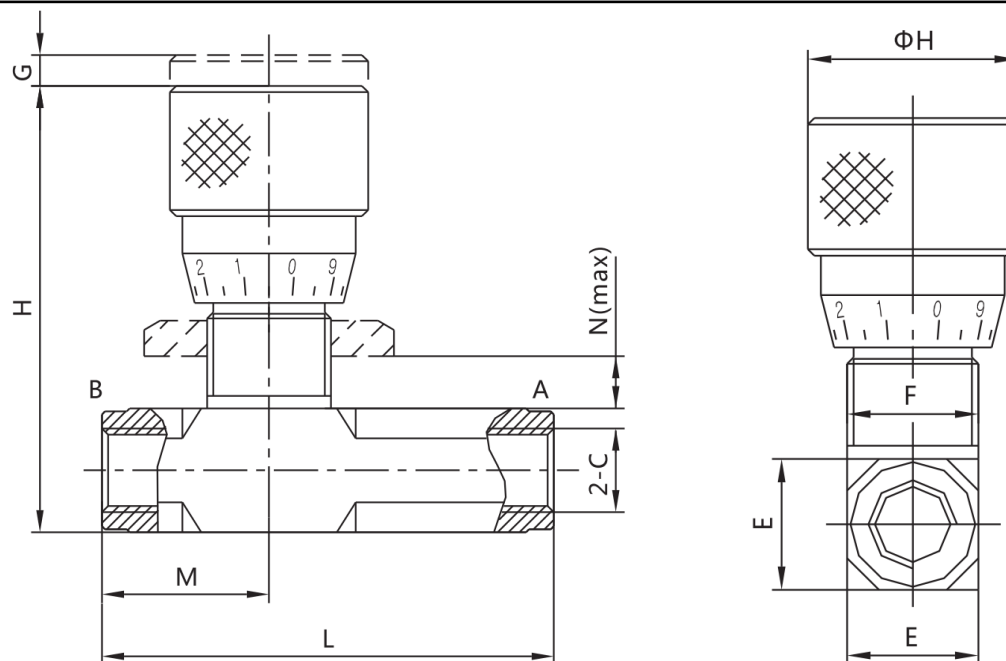
(Environment temperature: -20°C to 60°C)



| Performance Characteristics | Valve Size          |                     |                     |                     |                     |
|-----------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
|                             | 1/4"                | 3/8"                | 1/2"                | 3/4"                | 1"                  |
| Maximum Working Pressure    | 400 Bar<br>5800 PSI | 400 Bar<br>5800 PSI | 400 Bar<br>5800 PSI | 400 Bar<br>5800 PSI | 320 Bar<br>4600 PSI |
| Maximum Flow                | 12 L/min            | 30 L/min            | 50 L/min            | 85 L/min            | 150 L/min           |
|                             | 3.2 GPM             | 7.9 GPM             | 13.2 GPM            | 22.5 GPM            | 40 GPM              |



### Dimensions



| Part Number   | Body Size | C (thread)* | D  | E (AF) | F (dial thread) | G  | H   | L   | M    | N  |
|---------------|-----------|-------------|----|--------|-----------------|----|-----|-----|------|----|
| TV-CHK-BPF-04 | 1/4"      | 1/4 BSPP F  | 32 | 20     | M20 x 1         | 5  | 72  | 73  | 27   | 7  |
| TV-CHK-BPF-06 | 3/8"      | 3/8 BSPP F  | 32 | 25     | M25 x 1.5       | 9  | 80  | 82  | 31   | 7  |
| TV-CHK-BPF-08 | 1/2"      | 1/2 BSPP F  | 45 | 30     | M30 x 1.5       | 9  | 92  | 98  | 36.5 | 9  |
| TV-CHK-BPF-12 | 3/4"      | 3/4 BSPP F  | 45 | 40     | M35 x 1.5       | 10 | 100 | 112 | 42   | 11 |
| TV-CHK-BPF-16 | 1"        | 1-0 BSPP F  | 45 | 45     | M40 x 1.5       | 12 | 122 | 142 | 51   | 15 |

\* BSP threads are standard. NPT thread available on request.

**All dimensions in mm unless otherwise stated. Dimensions shown are for guidance only, if critical contact FCL staff.**